

Product datasheet for **MC202542**

Rrp8 (NM_025897) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rrp8 (NM_025897) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rrp8
Synonyms:	1500003O22Rik; 2900001K19Rik; AW538116
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC046799 sequence for NM_025897
 CCCGGTTTGGTCCGACTCCAGCCCTAGGATTCCTGACGCGCGCTGCACGTGGGCCAGAGCGTAGGCTCC
 TCCGGCCCTGCGGGCTACGGGTGGTATGTTCTGAAGAGCCCGAATGGGTGGAGGCGGCCCCAGCCATCGTG
 GGCCTAGGGGCCGCGACAGCACAGGTTAGGCCGGCGACTGCCCGCCAGTCAAGGGACGCAAGCGCCGCC
 ATCTCTTGGCCACATTACGGGCTCTGGAAGCAGCATCTCTCTCCAACAAACCCAGCCTACCTGGCAG
 TGACTCTGAGGAGGAGGAGGAGGTAGGAAGGAAGAAGAGACACCTCCAAGGCCCTCACTTGCCAGCGTC
 TCAAAGGAAGTAGGGAAGAAAAGAAAAGGAAATGTCAGAAACAGGCGCCATCCATCAGTACTTGAGG
 GGAAAGAAATAAGAAGAAAATGCCACAGACAAGTCCTCCTCTTGGTGGGTCTCTGCTGGAGAAGAAAA
 AGGAAAGAGAAAATGCCAGGAATATTCCTCTTTACACCTAACCCAGCCCTGGACAGTGTGACCAAACA
 GTTCACAATTCCAGGACGAGTACTGCTACAATTGACCCATCCAAGCCAAGCCCTGAGTCTATGTCACCTA
 ACTCCTCACACACCCTGAGCCGCAAGCAGTGGCGGAACCGGCAGAAAAAATAGCGGAGACACAAGAACA
 ATTTTCGGCCACTCCAGACACCAGAGCAGGCTCCTCCAAGGCTTCCATAGAGGAGACTGAGGTGCCTCCT
 GTCCCAAAGTCAGATAGTCAAGAGTCTAGAGCTGGAGCCCTGCGAGCACGCATGACACAACGCTGGATG
 GGGCCCGATTTTCGCTACCTTAATGAACAGTTGACTCAGGGCCAGCAGTGTGCCGACGCTATTCCA
 GGAAGACCCTGAGGCTTTTCTCCTTTATACCGTGGCTTCCAGAGACAAGTAAAGAAGTGGCCACTGCAC
 CCAGTGGACCGTATTGCCAAGATCTCCGCCAGAACCTGCATCCTTAGTGGTAGCTGACTTTGGCTGTG
 GAGATTGCCGCTAGCTCAAGTGTCCGGAACCCCTGTGCACTGTTTTGATTTGGCTTCTCTGGACCCAG
 GGTACAGTATGTGACATGGCCAGGTGCCTCTGGAGGATGAATCTGTAGATGTGGCTGTGTTTTGCCTT
 TCACTGATGGGAATAACATCAGGGACTTCCTTGGAGGCAAAATCGAGTGTAAAAACAGGGGGTCTTC
 TCAAAGTAGTGAAGTCAGCAGCCGCTTTGAGGATATTCGGACCTTTTTGGGGCTGTGACCAAACCTCGG
 CTTTAAGATTATCTACAAGGACCTGACCAACAGCCACTTCTTCTGTTTACTTTGAAAAGACCGGACCT
 CCTCGAGTAGGACCCAAAGCCAACTCTCAGGCCTTAACTTCAGCCCTGTCTCTACAAGCGCAGGTGAC
 CGATGGACACCCATTGGAAGGGGAGAGCTCAGACTCCAGTCCAGACTCAGAAGTGAAGACTGTATCTACCCAG
 GCTATGAGCCAGGATCTGGTACCACCCTCCTTCTGTACCAAGAACAAGTGGTAAAGCCTCCAGCTCAGC
 TCTACTCTAATGGAGCCTTCTTGATACAGAAAGCATAAAAATTACTTGGGCAGGCTCAAGAATGAGGTGT
 TTATTGTGAGGGCATGGATGTGTCTAATAATTGTGGGTCACTTCAAGTATTGTGAAAAGTGTGCGCTGAG
 AACTGATGGATCTCTGGGTTTGGCTTTCTTTCATCTCTCAGAAGGCACGTGGGCTCTCCGCTGTGTTGTC
 TTCTGACCAATATTGTCCACCTGTCTCATCCATAGTTTCTGCTCCTCAGCTTCAAGACTACAGACAGG
 CAGTTTTTGCCTTATGGCAGTCCCAATGCTAGTTTGGCAGTGGGGCTGGGAGTATTTAATTTCTTTG
 TTTCTTGGAGCTGGGAATCATCTAATTTTTTTCTGTGTTGCTATTGTTGTTGTTGTTGTTGTTGTTGA
 GACAGTATCTCAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
 GATTATTGGGAACACAGGCATGGGCCACCATATTTAGCTGAAGAAATCATTTACTTTCTGAATATTTCTAT
 TTCTCATTGAAAAATGTAACCTTCTTGTCTTACAGTATGTTAAATGGGTTCACTGAGGAAAGCTACAGC
 TAGAGCTGGGACTAGTAAGAGGTGCTGAATAAACCCAGCTATGGCTAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_025897

Insert Size: 1374 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC046799](#), [AAH46799](#)

RefSeq Size: 2324 bp

RefSeq ORF: 1374 bp

Locus ID: 101867

UniProt ID: [Q9DB85](#)

Cytogenetics: 7 E3

Gene Summary: Essential component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in response to intracellular energy status and acts by recruiting histone-modifying enzymes. The eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of NAD(+)/NADP(+) ratio activates SIRT1, leading to histone H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in the rDNA locus. In the complex, RRP8 binds to H3K9me2 and probably acts as a methyltransferase. Its substrates are however unknown (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate exon in the 5' UTR and 5' coding region, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.